armacell
advanced insulation

THE MAKERS OF Armaflex®

UT/Solaflex™

Tube and Roll Insulation

High Temperature & UV Resistant

- Ideal for solar applications
- 25/50-rated fire and smoke performance
- UL Listed
- 300° F upper temperature limit
- UV Resistant

Children & Schools GREENGUARD® Indoor Air Quality Certified

THE GLOBAL COMPACT WE SUPPORT

FOR GREENER BUILDINGS

Tube and Roll Insulation

UT Solaflex (Tube and Roll) Insulation is a closed cell, fiber-free EPDM elastomeric foam from the world's most recognized brand in flexible mechanical insulation.

- **Proven:** New generation of the original high-temperature closed cell insulation for solar collectors, refrigeration (including hot gas piping) and automotive
- **Fire Rated:** Meets 25/50 flame and smoke index of ASTM E 84
- Helps Protect Indoor Air Quality: Fiber-free, formaldehyde-free, low VOC, resists mold

Description

UT Solaflex Tube and Roll Insulation is a UL listed, flexible EPDM thermal insulation for high temperature, UV-resistant and oil-resistant applications. The closed-cell structure provides low thermal conductivity, excellent fire and smoke behavior, low temperature flexibility and excellent protection against heat flow and water vapor diffusion. It is manufactured without the use of CFCs, HFCs or HCFCs.

- Tubes: nominal wall thicknesses 1/2″, 3/4″ and 1″ (13, 19, 25mm)
- Rolls: (nominal thicknesses):
  1/2″ (13mm)
  3/4″ (19mm)
  1" (25mm)

No painting is necessary for performance of the product. However, all elastomeric-based cellular insulation will show surface defects after prolonged exposure to UV radiation. Painting will minimize these defects if installed outdoors. UT Solaflex is oil-resistant as tested by ASTM Oil No. 1 and No. 3.

Uses

UT Solaflex insulation performs on a broad range of metal pipes and tubing in piping and collectors, refrigeration-hot gas and dual temperature piping, automotive (under hood) and low pressure steam lines. Its EPDM formulation remains flexible at temperatures up to +300°F (+150°C) for long life and dependable service – with intermittent exposure to +350°F (+175°C). The product complies with: ASTM C 534 Type I (Tubular) Grade 2, Type II (Sheet), Grade 2 and UL94 5V-A, V-0, File E 55798.

Application

Available in unslit tube and roll form. UT Solaflex tubes are easy to snap on or sleeve over pipework. In roll form, it installs quickly on large flat or curved surfaces using Armaflex 625 Adhesive. UT Solaflex is installed in the same manner as AP Armaflex. Armaflex insulation products must be installed according to *"Installation of Armaflex Insulations"* brochure. *Proper installation is required to assure Armaflex insulation performance.*

HT 625 Adhesive
Powerful contact adhesive creates a vapor tight seal on systems operating up to 350° F (175° C).

ALL ARMACELL FACILITIES IN NORTH AMERICA ARE ISO 9001:2000 CERTIFIED.

Physical Properties

Specifications	Values	Test Method
Thermal Conductivity, Btu • in./h • ft² • °F (W/mK) 75° F (24° C) mean temperature	0.28 (0.040)	ASTM C 177 or ASTM C 518
Water Vapor Permeability, Perm-inch. [Kg/(s•m•Pa)]	0.08 [1.16 x 10^{-13}]	ASTM E 96, Procedure A
Flame spread and smoke developed index through 1" (25mm)	25/50	ASTM E 84
Mold Growth **Fungi Resistance** **Bacterial Resistance**	UL181 ASTM G21/C1338 ASTM G22	Meets requirements Meets requirements Meets requirements
Water Absorption, % by Volume	0.2%	
UV weather resistance	EXCELLENT	QUV Chamber Test ASTM G90 (EMMAQUA)
Upper Use Limit ②	300˚F (150˚C)	
Lower Use Limit ③	-297˚F (-183˚C)	
Ozone Resistance	Excellent	ASTM D 1149
Sizes: Tubes **Wall thickness (nominal)** **Inside diameter, tubular** **Length of sections, tubular**	 1/2", 3/4", 1" (13, 19, 25mm) 1/2" through 2-1/2" IPS 6′ (1.83m)	
Sizes: Rolls **Thickness x Length** **Width**	 1/2" x 70′ (13mm) x 21.3 m) 3/4" x 50′ (19mm) x 15.2 m) 1" x 35′ (25mm x 10.7m) 48" (1.22m)	
Density, typical range, lbs/ft³ ③	3.0 – 6.0	ASTM D 1622 or ASTM D 1667

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Notes

① Reference Only

② Suitable for systems with occasional or intermittent temperatures to 350° F (175° C), with a recommended exposure limit of one 30 minute period at 350° F (175° C) over 24 hours of operation.

③ At temperatures below -20° F (-29° C), elastomeric insulation starts to become less flexible. However, this characteristic does not affect thermal efficiency or water vapor permeability of UT Solaflex insulation.

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